

ONR BAA Announcement # ONR 06-0022
09 June 2006



BROAD AGENCY ANNOUNCEMENT (BAA)

Navigation and Timekeeping Technology

INTRODUCTION

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and the DoD Grants and Agreements Regulations (DODGARS) 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued. Request for same will be disregarded.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. The ONR reserves the right to select for award all, some or none of the proposals in response to this announcement. The ONR reserves the right to fund all, some or none of the proposals received under this BAA. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

I. GENERAL INFORMATION

1. Agency Name

Office of Naval Research
Contract and Grants Awards Division (ONR Code 251)
One Liberty Center, Suite 1425
875 North Randolph Street
Arlington, VA 22203-1995

2. Research Opportunity Title

Navigation and Timekeeping Technology

3. Program Name

Navigation and Timekeeping Science and Technology

4. Research Opportunity Number

BAA 06-0022

5. Response Date

White Papers: 26 July 2006
Full Proposals: 25 Sept. 2006

6. Research Opportunity Description

Synopsis:

In accordance with the guidance promulgated by the Office of the Assistant Secretary of Defense (NII), concerning Navigation Warfare (NAVWAR), which deals with the mitigation of denial of Positioning, Navigation and Timing (PNT), this effort is concerned with the first two of the three elements: Electronic Protection (EP) and Electronic Support (ES).

Precision navigation and timekeeping are essential for many modern naval and maritime systems, and it is essential that navigation and timekeeping services be made available to platforms and weapons at the highest level of accuracy and with the highest possible confidence at reasonable cost. Lack of precise navigation and

timekeeping technologies may jeopardize the success of military operations. For example, the Global Positioning System (GPS) provides highly accurate position/time information at low cost and, due to this, GPS has become the technology of choice for many users. Unfortunately, the GPS signal is a low-power signal that is susceptible to interference. Therefore there is a need for both (1) affordable approaches to make GPS more reliable/robust, and (2) affordable reliable precision navigation/timing alternatives to GPS.

In the past five years, ONR has been conducting a series of Navigation and Timekeeping Science and Technology Projects in the following three technology areas:

1. **GPS Anti-Jam Technology:** These efforts have initially been concerned with GPS antenna systems that are able to be steered electronically so that the antenna preferentially selects the intended satellite source and rejects spatially inhomogeneous noise and jammer sources. This effort is also concerned with the coupling of GPS with inertial systems. This latter association is beneficial because it draws upon the unique performance assets of each. In FY06 effort was concentrated in anti-spoof and other emergent threats. The FY07 focus is in GPS Navigation in stressed environments and concerns the development of low cost navigation systems and enabling components for such systems suited to Unmanned Underwater Vehicles (UUVs), Unmanned Aerial Vehicles (UAVs) and mobile-ground, mobile-littorally based, and personnel-carried devices. Operation in urban environments, underground, and in other environments that have signal propagation difficulties/deficiencies. Additionally, this work involves verification that the concepts developed in supported projects actually perform as intended. Upgraded GPS-system assessment facilities at Naval Research Laboratory (NRL) are presently underway. Approaches to improve performance verification through modeling will also be considered for support under this BAA.
2. **Precision Time and Time Transfer Technology:** The on-going areas of interest in this technology area have been concerned with the development of atomic clocks that possess unique long-term stability and precision. Having a precise clock provides a means to synchronize systems rapidly enabling one to convey information at what would otherwise be prohibiting noise levels. The second effort has been concerned with the development of the capability of: (a) transferring GPS-derived 1 pps Universal Coordinated Time (UTC) via RF links such as Joint Tactical Information Distribution System (JTIDS)/Link-16 and (b) maintaining a common reference time by tying together existing time standards distributed in the various systems. The FY07 focus of this area is: (a) the development of more ruggedized small-size, low cost, low power, atomic clocks of adequate accuracy (Allen Deviation of 10^{-9} to 10^{-10} in first 1 second integration) for use in GPS timekeeping back-up, GPS signal re-acquisition, and for incorporation into inertial navigation systems (INSs), and (b) the development of a navigation sensor data (position and time) distribution system, which will correct various time sources on a platform by statistical means and produce a common time reference.
3. **Non-GPS Navigation Technology:** In FY06 effort was focused primarily upon gyroscope development. Other efforts in FY06 in this technology area were concerned with the development of a correlation navigation technique using earth maps of high precision (including bathymetric and magnetometric data) that are now available or that are easily produced as a result of present earth satellite measurement capabilities. The focus of FY07 efforts in this area is: (a) the development of compact, low-cost, all electro-optical INS, whose performance is rated at better than the existing navigation grade INS, and (b) the development of high resolution Charge Coupled Device (CCD), which is applied to an automated celestial navigation system. The geo-location precision of this automated celestial navigation system is within 3 meters versus the 30 meters precision typically proposed.

Although the above show specific areas of concentration in this program, the program aggressively seeks new and innovative navigation technologies that will provide more accurate, reliable, maintainable and affordable systems for Naval Air, Surface, Subsurface and Ground Platforms and Forces. The leveraging of industry investments and particularly the technologies developed for civilian systems are desired.

7. Points of Contact

Questions of a technical nature shall be directed to the cognizant Science and Technical Point of Contact, as specified below:

Dr. John Kim
Navigation and Timekeeping Science and Technology Program Officer
Surveillance, Communications and Electronic Combat Division
Code ONR 312
Office of Naval Research
One Liberty Center
875 North Randolph Street
Arlington, VA 22203-1995
Email: Kimj@onr.navy.mil

Questions of a business nature shall be directed to the cognizant Contract Specialist, as specified below:

Ms. Carol Brown
Contract Specialist
Contract and Grant Awards Management
ONR 251
Office of Naval Research
One Liberty Center
875 North Randolph Street
Arlington, VA 22203-1995
Email: Carol_Brown@onr.navy.mil

**** Important Notices Regarding Questions ****

All questions (of a general, technical, programmatic, or business nature) shall be submitted in writing by electronic mail. Questions and responses will be posted under the ONR BAA web page (<http://www.onr.navy.mil/02/baa>) and on the C2 and CS website (http://www.onr.navy.mil/forcenet_c2csfy07). No e-mail responses will be provided.

Questions presented by telephone call, fax message, or other means will not be responded to. There will be no meetings between potential offerors and ONR personnel.

White Papers and Full Proposals are to be sent to the Submission Coordinator specified below. Grant Proposal submissions should be submitted in accordance with Section IV (D) below. *Note: The Technical or Business Point of Contact will not accept any white papers or proposals.*

Ms. Sheila Richardson
Navigation and Timekeeping Science and Technology Program Analyst
Surveillance, Communications and Electronic Combat Division
Code ONR 312
Office of Naval Research
One Liberty Center
875 North Randolph Street Suite 1425*
Arlington, VA 22203-1995
Telephone: (703) 696-0113
Email: Sheila_Richardson@onr.navy.mil .

** Notes -*

1: This is the Official address for ONR. Deliveries should not be made to this Suite number. For the submission of the white papers, oral presentation materials, and full proposals, please refer to paragraph 5 entitled "Address for the Submission of White Papers, Oral Presentation Materials, and Full Proposals" under Section IV entitled "Application and Submission Information."

2. If the Offeror chooses to use the United States Parcel Service (USPS), it needs to use the Official address. Offerors should be aware that they need to allow up to an extra five (5) business days because USPS mail is sent to a central location for special processing before it is delivered to ONR. White papers, proposals, etc. delivered in person, via carrier, or by commercial carriers (e.g., FED-EX) should be sent to the room number identified in Section IV below.

8. Instrument Type(s)

It is anticipated that primarily contracts will result from this solicitation. However, ONR will consider awarding grants (see Section IV (D) for submission of grant proposals), cooperative agreements or other transactions as appropriate.

9. Catalog of Federal Domestic Assistance (CFDA) Number

CFDA No.: 12.300

10. Catalog of Federal Domestic Assistance (CFDA) Title

CFDA Title: Basic and Applied Scientific Research

11. Additional Information

N/A

II. AWARD INFORMATION

The Office of Naval Research (ONR) plans to award multiple technology development contracts (particularly cost plus fixed fee (CPFF) type contracts) and possibly some assistance agreements, which represent the best value to the Government in accordance with the evaluation criteria. The Office of Naval Research is seeking participants for this program that are capable of supporting the goals described in this announcement. Offerors have the opportunity to be creative in the selection of the technical and management processes and approaches to address the thrust areas.

The period of performance of the awards typically ranges from one to three years. There will be no options. ONR anticipates a budget of \$2,000,000 for this program. ONR plans to fund \$300,000 to \$700,000 per year per award using Exploratory Development Funds (Budget Category 6.2) and Advanced Technology (Budget Category 6.3). However, lower and higher cost proposals will be considered. The average funding level of past awards was approximately \$400,000 per year; and the number of awards made under the prior year BAA was eleven (11). The period of performance for projects may be from one to three years, with an estimated start date of October-December 2006, subject to date of final award and availability of new fiscal year funds.

ONR has funded related technology development under numerous programs. Proposals that build on current or previous DoD work are encouraged. If offerors are enhancing work performed under other ONR or DoD projects, they must clearly identify the point of departure and what existing work will be brought forward and what new work will be performed under this BAA.

III. ELIGIBILITY INFORMATION

All responsible sources may submit a proposal, which shall be considered by the Government. Historically Black Colleges and Universities (HBCU) and Minority Institutions (MI) are encouraged to submit proposals and join others in submitting proposals. However, no portion of this BAA will be set aside for HBCU and MI participation due to the impracticality of reserving discrete or severable areas of Navigation and Timekeeping Technology for exclusive competition among these entities.

Independent organizations and teams are encouraged to submit proposals in any or all areas. However, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators, selected by ONR.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process

(A) White Papers:

Due Date: The due date for white papers is no later than 2 p.m. Eastern Time on 26 July 2006. Each white paper should state that it is submitted in response to this BAA.

Evaluation/Notification: Initial Navy evaluations of the white papers will be issued via E-mail notification on or about 11 Aug. 2006. Detailed technical and cost proposals will be subsequently encouraged especially from those offerors whose proposed technologies have been identified through the above-referenced E-mail as being of "particular value" to the Navy. However, any such encouragement does not assure a subsequent award.

Submission of Full Proposal: Full proposals will not be considered under this BAA unless a white paper was received before the white paper due date specified above.

(B) Oral Presentations:

The purpose of the oral presentation is to better acquaint the Government with the Offeror's proposal, especially in its understanding of how the proposed technology will affect military applications. Offerors' technologies identified through the white paper reviews as being of "particular value" to the Navy, will be asked to make an oral presentation of their white papers to a panel of government evaluators.

Invitation Process: Offerors whose white papers are selected for oral presentations will be invited by e-mail not less than five (5) working days prior to the commencement of the unclassified oral presentation event. This event is tentatively planned for the week of 21 Aug. 2006.

Process: A detailed format for the presentation will be provided in the e-mail invitation. Each presentation will be no longer than twenty (20) minutes in duration. An additional ten (10) minutes will be allowed for questions (if any) from the panel of government reviewers. Offerors will be required to submit their oral presentation materials to the government PRIOR to the presentation as specified in the invitation email.

Notification/Evaluation: Those offerors whose technology is still considered as having "particular value" to the Navy will be encouraged to submit detailed technical and cost proposals. Notice of encouragement to submit full proposals will be issued on or about Friday, 25 Aug 2006. However, such encouragement after oral presentations does not assure a subsequent award. If the Offeror receives notification that its technology was not considered as having "particular value" to the Navy, it cannot submit a full proposal. Full proposals will not be considered under this BAA unless both a white paper was received by the due date specified above and a presentation was made during the Oral Presentation event.

Policy Towards Reimbursement of Oral Presentation Costs: The Office of Naval Research will not reimburse preparation costs, travel costs and time for potential bidders to brief their proposals.

Note: Offerors may not be allowed to participate in the oral presentations if materials are received late (as described in the invitation email), and the project will not be considered further.

(C) Full Proposals: The due date for receipt of Full Proposals is 2 p.m. Eastern Time on 25 Sept. 2006. It is anticipated that final selections will be made 30 days after proposal submission. As soon as the final proposal evaluation process is completed, the proposer will be notified via email of its selection or nonselection for an award. Proposals exceeding their page limit may not be evaluated.

(D) Submission of Grant Proposals

Proposal may be submitted through Grants.gov or by hard copy. For electronic submission, there are several one-time actions you must complete in order to submit an application through Grants.gov (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), register with the credential provider, and register with Grants.gov). See www.grants.gov/GetStarted. Use the Grants.gov Organization Registration Checklist at <http://www.grants.gov/assets/OrganizationRegCheck.doc> to guide you through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called MPIN are important steps in the CCR registration process. Applicants, who are not registered with CCR and Grants.gov, should allow at least 21 days to complete these requirements. It is suggested that the process be started as soon as possible. Additionally, you will need to download PureEdge Viewer. In order to download the application package, you will need to install PureEdge Viewer. This small, free program will allow you to access, complete, and submit applications electronically and securely. For a free version of the software, visit the following web site: www.grants.gov/DownloadViewer. Should you have questions relating to the registration process, system requirements, how an application form works or the submittal process must be directed to Grants.gov at 1-800-518-4726 or support@grants.gov.

2. Content and Format of White Papers and Full Proposals

The White Papers and Proposals submitted in response to this BAA are expected to be unclassified. However, confidential/classified proposals are permitted. The Proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information. The Proposal shall include a severable, self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions.

IMPORTANT NOTE: Titles given to the white papers/proposals should be descriptive of the work they cover and not be merely a copy of the title of this solicitation.

(A) WHITE PAPERS

Format – Cover Page: The cover page should be labeled “WHITE PAPER” and should include the BAA number 06-016, proposal title, technology thrust areas addressed, and technical points of contact with telephone number, facsimile number, and E-mail address. This shall only be one (1) page.

Format – Technical portion: The technical part of the white paper should include those items required in the full proposals below, but should not exceed ten (10) pages and should focus on the proposed technical concept and approach within the areas of interest described above. White papers exceeding any of these page restrictions may not be reviewed.

Format – Cost portion: A two (2) page cost proposal should be included with the white paper submission. The first page of the cost proposal should be a summary of costs segregated by task. The second page should be a summary of costs segregated by cost category. White papers exceeding any of these page restrictions may not be reviewed.

(B) FULL PROPOSALS

Format – Volume 1 (Technical Proposal) and Volume 2 (Cost Proposal)

- Paper Size – 8.5 x 11 inch paper
 - Margins – 1” inch
 - Spacing – single or double-spaced
 - Font – Times New Roman, 12 point

- Number of Pages – Volume 1 is limited to no more than 30 pages. Volume 2 has no page limit. The cover page, table of contents, and resumes are excluded from the page limitations. Full Proposals exceeding the page limit may not be evaluated.
- Copies – one (1) original, 5 copies and one electronic copy on CD-ROM, (in Microsoft® Word or Excel 97 compatible or .PDF format).

Content of Volumes 1 and 2

Volume 1: Technical Proposal

Volume 1 of the Full Proposal shall include the following sections, each starting on a new page. Please pay attention to the page limitations for each section as specified below.

1) Cover Page: (Not included in page limitations.) This should include the words “Technical Proposal” and the following:

- (a) BAA number
- (b) Title of Proposal
- (c) Identity of prime Offeror and complete list of subcontractors, if applicable;
- (d) Principal Investigator (PI) contact (name, address, phone/fax, electronic mail address);
- (e) Business contact (name, address, phone/fax, electronic mail address); and,
- (f) Duration of effort (differentiate basic effort and any options)

2) Table of Contents: (Not included in page limitations.)

3) Executive Summary: (2 pages) Summarize the technology you are proposing and the expected improvements to the Navy.

4) Concept of Operation for the Navy: (2 pages) A summary of the way in which the proposal's product(s) would support the Navy in an operational context. Include quantitative specifications for how the products will improve operational performance.

5) Statement of Work: (5 pages) A Statement of Work (SOW) clearly detailing the scope and objectives of the effort and the technical approach. It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW without any proprietary restrictions, which can be attached to the contract or agreement award. Include a detailed listing of the technical tasks/subtasks organized by year.

6) Project Schedule and Milestones: (1 page) A summary of the schedule of events and milestones.

7) Assertion of Data Rights: (1 page). Include here a summary of any proprietary rights to pre-existing results, prototypes, or systems supporting and/or necessary for the use of the research, results, and/or prototype. Any rights made in other parts of the proposal that would impact the rights in this section must be cross-referenced. If there are proprietary rights, the Offeror must explain how these affect its ability to deliver subsystems and toolkits for integration. Additionally, Offerors must explain how the program goals are achievable in light of these proprietary and/or restrictive limitations. If there are no claims of proprietary rights in pre-existing data, this section shall consist of a statement to that effect.

8) Technical Approach and Deliverables: (Not To Exceed 9 pages) A detailed description of the approach planned, results targeted and products to be delivered.

9) Operational Utility: (Not to Exceed 2 pages) A detailed plan for assessing the operational utility of the key products of this effort during a Fleet or Marine operational exercise, including proposed metrics.

10) Qualifications: (3 pages) A discussion of previous accomplishments and work in this, or closely related, areas, and the qualifications of the investigators. Key personnel resumes shall be attached to the proposal and will not count toward the page limitations.

11) Management Approach: (5 pages) A discussion of the overall approach to the management of this effort, including brief discussions of the total organization, use of personnel, project/function/subcontractor

relationships, government research interfaces, and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/Hardware/Software/Information required, by version and/or configuration.

Volume II: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts, Part 1 and Part 2. Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar/fiscal year and Part 2 will provide a cost breakdown by task/sub-task using the same task numbers in the Statement of Work.

• Cover Page: The use of the SF 1411 is optional. This proposal should include the words "Cost Proposal" and the following:

- 1) BAA number;
- 2) Title of Proposal;
- 3) Identity of prime Offeror and complete list of subcontractors, if applicable;
- 4) Technical contact (name, address, phone/fax, electronic mail address);
- 5) Administrative/business contact (name, address, phone/fax, electronic mail address);
- 6) Duration of effort (differentiate basic effort and options); and a
- 7) Summary statement of proposed costs

• Part 1: Detailed breakdown of all costs by cost category by calendar/fiscal year:

- 1) Direct Labor - Individual labor category or person, with associated labor hours and unburdened direct labor rates;
- 2) Indirect Costs - Fringe Benefits, Overhead, GAD, COM, etc. (Must show base amount and rate)
- 3) Proposed contractor-acquired equipment, such as, but not limited to, computer hardware for proposed research projects should be specifically itemized with costs or estimated costs, if it is being proposed as a direct cost. An explanation of any estimating factors, including their derivation and application, should be provided. Please include a brief description of the Offertory's procurement method to be used;
- 4) Proposed Government furnished equipment or facilities, if applicable.
- 5) Travel - Number of trips, number of days per trip, departure and arrival destinations, number of people, etc;
- 6) Subcontract - A cost proposal as detailed as the Offertory's cost proposal will be required to be submitted by the subcontractor. The subcontractor's cost proposal can be provided in a sealed envelope with the Offertory's cost proposal or will be requested from the subcontractor at a later date;
- 7) Consultant - Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate;
- 8) Materials should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Please include a brief description of the Offertory's procurement method to be used;
- 9) Other Directs Costs should be itemized with costs or estimated costs. Backup documentation should be submitted to support proposed costs; and
- 10) For proposed procurement contracts, the Offertory's proposed Fee/Profit, including fee percentage.

• Part 2: Cost breakdown by task/sub-task using the same task numbers in the Statement of Work.

3. Significant Dates and Times

Anticipated Schedule of Events		
Event	Date (MM/DD/YEAR)	Time (Eastern Time)
White Paper Due Date Page Limit: 12 (Excluding the cover page)	26 July 2006	1400
Notification of Navy Evaluation of White Papers	11 Aug 2006*	COB
Oral Presentations	Week of 21 Aug 2006*	TBD
Notification of Navy Evaluation of Oral Presentations	25 Aug 2006*	N/A
Full Proposals Due Date (Page Limit: 30) (Excluding the cover page, table of contents, and cost proposal)	25 Sept. 2006	1400
Notification of Selection: Full Proposals	30 days after Full Proposal due date*	N/A
Contract Awards	OCT. thru DEC. 2006*	N/A

* These dates and times are estimates as of the date of this announcement.

4. Submission of Late Proposals

Any proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt of proposals is "late" and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and

- (a) If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
- (b) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government's control prior to the time set for receipt of proposals; or
- (c) It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal, which makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

Acceptable evidence to establish the time or receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extend to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

5. Address for the Submission of White Papers and Full Proposals

Ms. Sheila Richardson
Navigation and Timekeeping Science and Technology Program Analyst
Surveillance, Communications and Electronic Combat Division
Code ONR 313
Office of Naval Research
One Liberty Center, Room: W1105D
875 North Randolph Street
Arlington, VA 22203-1995

Telephone: (703) 696-0113

NOTE: PROPOSALS SENT BY FAX OR EMAIL WILL NOT BE CONSIDERED.

V. EVALUATION INFORMATION

1. Evaluation Criteria -

The following evaluation criteria apply to both the White Papers and the Full Proposals.

These submissions will be selected through a technical/scientific/cost decision process with technical and scientific considerations being more important than cost. Even though cost is of less importance than all the technical factors combined, it will not be ignored. The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is to be based, or when the cost is so significantly high as to diminish the value of the technical superiority to the Government. Criteria A-D are listed in descending order of priority. Any subcriteria listed under a particular criterion are of equal importance to each other.

- A. Overall scientific and technical merits of the proposal
 - 1. The degree of innovation
 - 2. The soundness of technical concept
 - 3. The offeror's awareness of the state of the art and understanding of the scope of the problem and the technical effort needed to address it
- B. Naval relevance, transition potential and anticipated contributions of the proposed technology to Navigation and/or Timekeeping..
- C. Offeror's capabilities, related experience, and past performance, including the qualifications, capabilities and experience of the proposed principal personnel
 - 1. The quality of technical personnel proposed
 - 2. The offeror's experience in relevant efforts with similar resources
 - 3. The ability to manage the proposed effort
- D. The realism of the proposed cost
 - 1. Total cost relative to benefit
 - 2. Realism of cost levels for facilities and staffing

Socio-Economic Merits - For proposed awards made as contracts, the socio-economic merits of each

proposal will be evaluated based on the extent of the Offeror's commitment in providing meaningful subcontracting opportunities (to the maximum extent practicable) for small businesses, HUBZone small businesses, small disadvantaged businesses, woman-owned small businesses, veteran-owned small businesses, service disabled veteran small businesses, historically black colleges and universities, and minority institutions.

Industry-Academia Partnering – ONR highly encourages partnering among industry and academia with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-academic partnering which enhances the development of novel S&T advances will be given favorable consideration.

Industry-Government Partnering – ONR highly encourages partnering among industry and Government with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-Government partnering which enhances the development of novel S&T advances will be given favorable consideration.

2. Evaluation Panel

Potential Offerors should understand that government technical experts drawn from the Office of Naval Research and other naval and defense activities/agencies will participate in the evaluation of the Full Proposals. All government personnel participating in evaluation will be bound by appropriate non-disclosure agreements to protect proprietary and source-selection information.

The Government may use selected support personnel to assist in providing both technical expertise and administrative support regarding any ensuing proposals from this announcement. These support contractors will be bound by appropriate non-disclosure agreements to protect proprietary and source-selection information.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements

- The North American Industry Classification System (NAICS) code - The North American Industry Classification System (NAICS) code for this solicitation is 541710 with a small business size standard of 500 employees.

- CCR - Successful offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>

- Certifications - Proposals should be accompanied by a completed certification package which can be accessed on the ONR Home Page at Contracts and Grants. For grant proposals and proposals for cooperative agreements or other transaction agreements (other than for prototypes), the certification package is entitled, "[Certifications for Grants and Agreements](#)" For contract proposals, the certification package is entitled, "[Representations and Certifications for Contracts](#)" .

- Subcontracting Plans - Successful contract proposals that exceed \$500,000, submitted by all but small business concerns, will be required to submit a Small Business Subcontracting Plan in accordance with FAR 52.219-9, prior to award. This requirement also applies to non-profits, including educational institutions.

2. Reporting

The following is a sample of written deliverables that could be required under a research effort. The following deliverables, primarily in contractor format, are anticipated as necessary. However, specific deliverables should be proposed by each offeror and finalized with the contracting agent:

- Detailed Technical Data

- Technical and Financial Progress Reports
- Presentation Material(s)
- Other Documentation or Reports as required
- Final Report

VII. OTHER INFORMATION

1. Government Property/Government Furnished Equipment (GFE) and Facilities

Each offeror must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware proposed to be purchased for this effort. It is the Government's desire to have the contractors purchase the equipment/hardware for deliverable items under their contract. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be evaluated for allowability on a case-by-case basis.

Offerors are expected to provide all facilities (equipment and/or real property) necessary for the performance of the proposed effort. Any direct charge of facilities, not including deliverable items, must be specifically identified in the Offeror's proposal and approved by the Government prior to purchase. In addition, any request to use Government owned facilities must be included in the Offeror's proposal and approved in advance by the cognizant Government official. After contract award, requests to use Government integration, test, and experiment facilities will be considered on a case by case basis based on availability and justification of need.

2. Security Classification

All proposals are expected to be unclassified. However, confidential/classified proposals are permitted.

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable awardees to work at the unclassified level to the maximum extent possible.

If awardees use unclassified data in their deliveries and demonstrations regarding a potential classified project, they should use methods and conventions consistent with those used in classified environments. Such conventions will permit the various subsystems and the final system to be more adaptable in accommodating classified data in the transition system.

3. Project Meetings & Reviews

Individual program reviews between the ONR sponsor and the performer may be held as necessary.

Program status reviews may also be held to provide a forum for reviews of the latest results from experiments and any other incremental progress towards the major demonstrations. These meetings will be held at various sites throughout the country. For costing purposes, Offerors should assume that 40% of these meetings will be at or near ONR, Arlington VA and 60% at other contractor or government facilities. Interim meetings are likely, but these will be accomplished via video telephone conferences, telephone conferences, or via web-based collaboration tools.